

DESCRIPTION

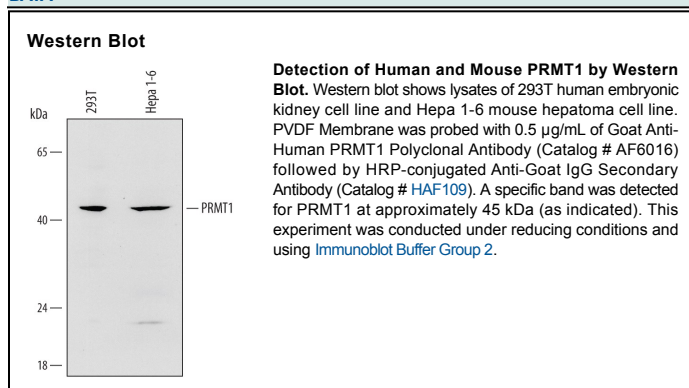
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PRMT1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PRMT1 Lys218-Arg361 Accession # Q99873
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PRMT/PRMT1 (Protein-Arginine Methyltransferase 1; also HRMT1L2 and HMT2) is a 42-45 kDa type I member of the arginine N-methyltransferase family of enzymes. It is ubiquitously expressed and dimethylates single arginine residue nitrogen atoms in a distributive manner (i.e.-with substrate release following each methylation step). PRMT1 forms homodimers, and heterodimers with PRMT3, and exists as part of a 300-400 kDa complex in vivo. Human PRMT1 is 361 amino acids in length and contains one adenosyl-L-methionine binding site (aa 85-153) and a phosphorylation site at Tyr299. There are multiple splice variants that show distinct substrate specificities. There is an alternate start site 10 aa upstream of the standard start site, and a single Met, plus a five aa and 11 aa substitution for aa 1-19. One isoform has a 2 aa substitution for aa 1-20 accompanied by a deletion of aa 52-67. Over aa 218-361, human PRMT1 is 100% identical in aa sequence to mouse PRMT1.